12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20080201001
Datasheet Errata for TS3A5018
Information Only

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this PCN are for your information only. Please see the attachment details for the planned implementation date.

This notification period is per TI's standard process. Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659

PCN Number:	20080201001	PCN Date:	02/29/2008
Title:	Datasheet Errata for TS3A5018		
Customer Contact:	Linda K Miles	Phone: 903-868-7638	Dept: Standard Linear and Logic
Proposed 1st Ship Date:	N/A	Estimated Sample Availability:	N / A

Change Type:		
☐ Assembly Site	☐ Assembly Process	☐ Assembly Materials
☐ Design	☒ Electrical Specification	☐ Mechanical Specification
☐ Test Site	☐ Packing/Shipping/Labeling	☐ Test Process
☐ Wafer Bump Site	☐ Wafer Bump Material	☐ Wafer Bump Process
☐ Wafer Fab Site	☐ Wafer Fab Materials	☐ Wafer Fab Process

PCN Details

Description of Change:

Texas Instruments Standard Linear and Logic is issuing this notification because the datasheet does not reflect the correct performance of the device. There is no change to silicon. Changes are highlighted in yellow below.

FEATURES Before:

- Low ON-State Resistance (10 Ω)
- Low Charge Injection
- Excellent ON-State Resistance Matching
- Low Total Harmonic Distortion (THD)
- 2.3-V to 3.6-V Single-Supply Operation
- Control Inputs Are 5.5-V Tolerant
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Performance Tested Per JESD 22
  - 2000-V Human-Body Model (A114-B, Class II)
  - 1000-V Charged-Device Model (C101)

FEATURES After:

- Low ON-State Resistance (10 Ω)
- Low Charge Injection
- Excellent ON-State Resistance Matching
- Low Total Harmonic Distortion (THD)
- 2.3-V to 3.6-V Single-Supply Operation
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  - 2000-V Human-Body Model (A114-B, Class II)
  - 1000-V Charged-Device Model (C101)

Absolute Minimum and Maximum Ratings Before:

		MIN	MAX	UNIT
V_{NC} V_{NO} V_{COM}	Analog voltage range(3)(4)	–0.5	7	V
V_I	Digital input voltage range(3)(4)	–0.5	7	V

Absolute Minimum and Maximum Ratings After:

		MIN	MAX	UNIT
V_{NC} V_{NO} V_{COM}	Analog voltage range(3)(4)	–0.5	4.6	V
V_I	Digital input voltage range(3)(4)	–0.5	4.6	V

Parameter Before:

Electrical Characteristics for 3.3-V Supply

Digital Control Inputs (IN, /EN)(2)								
Parameter	Symbol	Test Conditions	TA	V+	MIN	TYP	MAX	UNIT
Input leakage current	I_{IH}, I_{IL}	V = 5.5 V or 0V	25°C	3.6 V	−1	0.05	1	µA
			Full		−1		1	

Parameter After:

Electrical Characteristics for 3.3-V Supply

Digital Control Inputs (IN, /EN)(2)								
Parameter	Symbol	Test Conditions	TA	V+	MIN	TYP	MAX	UNIT
Input leakage current	I_{IH}, I_{IL}	V = V+ or 0V	25°C	3.6 V	−1	0.05	1	µA
			Full		−1		1	

Parameter Before:

Electrical Characteristics for 2.5-V Supply

Digital Control Inputs (IN, /EN)(2)								
Parameter	Symbol	Test Conditions	TA	V+	MIN	TYP	MAX	UNIT
Input leakage current	I_{IH}, I_{IL}	V = 5.5 V or 0V	25°C	2.7 V	−0.1	0.05	−0.1	µA
			Full		−1		1	

Parameter After:

Digital Control Inputs (IN, /EN)(2)								
Parameter	Symbol	Test Conditions	TA	V+	MIN	TYP	MAX	UNIT
Input leakage current	I_{IH}, I_{IL}	V = V+ or 0V	25°C	2.7 V	−0.1	0.05	0.1	µA
			Full		−1		1	

Literature Number

Device Type	Current Literature #	New Literature #
TS3A5018	SCDS189A	SCDS189B

Reason for Change:

This change is being made to correct the Datasheet.

Anticipated impact on Fit, Form, Function & Reliability (positive / negative):

Texas Instruments does not anticipate a negative impact on fit, form, function or reliability.

Changes to product identification resulting from this PCN:

There is not change to product identification.

Product Affected:

TS3A5018DBQRE4	TS3A5018DRE4	TS3A5018PWR
TS3A5018DBQRG4	TS3A5018DRG4	TS3A5018PWRE4
TS3A5018DE4	TS3A5018PW	TS3A5018PWRG4
TS3A5018DG4	TS3A5018PWE4	TS3A5018RGYR
TS3A5018DGVRE4	TS3A5018PWG4	TS3A5018RGYRG4
TS3A5018DGVRG4		

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
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Europe	PCNEuropeContact@list.ti.com
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